Project: Vacuum Filter Sludge Pile & Sludge Drying Beds - Hercules Aqualon, Hopewell, Virginia
Laboratory: Test America, Savannah, Georgia
Sample Delivery Group: HAQ032
Fraction: Inorganic
Matrix: Aqueous
Report Date: 9/3/2009

This analytical quality assurance report is based upon a review of analytical data generated for surface water samples. The sample locations, laboratory identification numbers, sample collection dates, sample matrix, and analyses performed are presented in Table 1.

The sample analyses were performed in accordance with the procedures outlined in "Test Methods for Evaluating Solid Wastes", SW-846, third edition, Promulgated Updates II, IIA, and III, June 1997, and "Methods for Chemical Analysis of Water and Wastes", EPA-600/4-79-020, March 1983.

All sample analyses have undergone an analytical quality assurance review to ensure adherence to the required protocols. Results have been validated or qualified according to general guidance provided in the Region III modifications to "USEPA Contract Laboratory Program National Functional Guidelines for Inorganic Data Review", USEPA 10/2004. This document specifies procedures for validating data generated for CLP analyses. Therefore, the quality control requirements specified in the methods and associated acceptance criteria were also used to evaluate the non-CLP data. The parameters presented on the following page were evaluated.

X	•	Data Completeness
X	•	Chain of Custody Documentation
X	•	Holding Times
X	•	Initial and Continuing Calibrations
X	•	ICP Interference Check Sample Results
X	•	Laboratory and Field Blank Analysis Results
X	•	Matrix Spike Recoveries and Reproducibility
X	•	Laboratory Duplicate Analysis Results
X	•	ICP Serial Dilution Results
X	•	Field Duplicate Analysis Results
X	•	Laboratory Control Sample Results
	•	GFAA Post-Digestion Spike Recovery/Duplicate Burn Precision
X	•	Qualitative Identification
X	•	Quantitation/Reporting Limits

X - Denotes parameter evaluated.

It is recommended that the data only be used according to the qualifiers presented, and discussed in this report. All other data should be considered qualitatively and quantitatively valid as reported by the laboratory, based on the items evaluated.

Report Approved By:

Shawne M. Rodgers
President

9/3/2009
Date

1.0 *DATA COMPLETENESS*

The data package was missing the metals raw data for the matrix spike duplictate and sample SDB-SW01 analyses on 3/20/2009 at 11:17 and 11:24. The laboratory was contacted and provided the missing data.

The CRQL standards analyzed on 3/23/2009 at 13:18 and 13:25 were not reported on the CRQL standard summary form. The laboratory was contacted and provided the revised forms.

The data package was missing the Kjeldahl nitrogen raw data for the 4/29/2009 preparation and 4/30/2009 analyses of samples SDBSW-3 and BD-1. The laboratory was contacted and provided the missing data.

Samples SDBSW-3 and BD-1 were analyzed outside of holding times for Kjeldahl nitrogen; however, this was not noted in the case narrative. The laboratory was contacted and provided the revised narrative.

2.0 *CHAIN OF CUSTODY DOCUMENTATION*

All chain of custody documentation was complete.

3.0 *HOLDING TIMES*

Positive results reported for Kjeldahl nitrogen for samples SDBSW-3 and BD-1 should be considered biased low quantitative estimates, and may be higher than reported. The laboratory analyzed these samples fifteen days outside of the twenty-eight-day holding time specified by the method. Because the samples were analyzed outside of the holding time biological or chemical degradation may have occurred. Positive results have been marked with "L" qualifiers to indicate that they are biased low quantitative estimates.

4.0 *INITIAL AND CONTINUING CALIBRATIONS*

All criteria were met. No qualifiers were applied.

5.0 *ICP INTERFERENCE CHECK SAMPLE RESULTS*

All criteria were met. No qualifiers were applied.

6.0 *LABORATORY AND FIELD BLANK ANALYSIS RESULTS*

Positive results reported for beryllium, cadmium, chromium, cobalt, nickel, vanadium, and nitrite in the following samples should be considered to be nondetect due to the presence of these analytes in the associated continuing calibration blanks and/or preparation blanks presented in Table 2. Region III protocol requires positive results for inorganic contaminants, that are less than or equal to five times the blank contamination level, to be considered qualitatively invalid. Placing "B" qualifiers next to the quantitative results for these analytes in the samples has indicated this.

Analyte	Affected Samples
Beryllium	VFSP-SW-1, SDBSW-3, BD-1
Cadmium	SDBSW-3
Chromium	VFSP-SW-1, SDB-SW-1, SDB-SW-2
Cobalt	SDB-SW-2
Nickel	SDB-SW-1, SDB-SW-2
Vanadium	VFSP-SW-1, SDB-SW-1, SDB-SW-2
Nitrite	VFSP-SW-1

Field and equipment blanks were not provided for the samples in this SDG. Therefore, the sample data could not be evaluated based on this parameter.

7.0 *MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERIES AND REPRODUCIBILITY*

Positive results reported for manganese for sample SDBSW-3 and BD-1 and for Kjeldahl nitrogen for samples VFSP-SW-1, SDB-SW-1, and SDB-

SW-2 should be considered biased low quantitative estimates and may be higher than reported. The associated matrix spike recovery was below the acceptance limit for these analytes. The low recovery indicates the presence of interferences for manganese and Kjeldahl nitrogen for samples of similar matrix. Positive results have been marked "L" to indicate that they are biased low quantitative estimates.

8.0 LABORATORY DUPLICATE RESULTS

All criteria were met. No qualifiers were applied.

9.0 ICP SERIAL DILUTION RESULTS

All criteria were met. No qualifiers were applied.

10.0 FIELD DUPLICATE RESULTS

Duplicate samples SDBSW-3 and BD-1 were submitted to the laboratory to evaluate sampling and analytical precision for those inorganic analytes determined to be present. Results for these duplicate samples are presented in Table 3. Precision is evaluated by calculating the relative percent difference (%RPD) between duplicate pair results. There are no USEPA-established acceptance criteria for field duplicate samples. EDQ uses internal acceptance criterion of 25 percent for values greater than five times the CRDL (or $\pm$ the CRDL for results less than five times the CRDL).

11.0 LABORATORY CONTROL SAMPLE RESULTS

All criteria were met. No qualifiers were applied.

12.0 GFAA POST-DIGESTION SPIKE/DUPLICATE BURN

This parameter is not applicable to the analyses performed.

13.0 QUALITATIVE IDENTIFICATION

All criteria were met. No qualifiers were applied.

14.0 QUANTITATION/REPORTING LIMITS

As required by USEPA protocol, all inorganic analytes which were qualitatively identified at concentrations between their respective quantitation limits (QLs) and their method detection limits, have been marked with "J" qualifiers to indicate that they are quantitative estimates.

Analysis	Reference
Appendix IX Metals	Method 6020, "Test Methods for Evaluating Solid Wastes", SW-846, third edition, Promulgated Updates II, IIA, and III, June 1997
Total Organic Carbon	Method 9060, "Test Methods for Evaluating Solid Wastes", SW-846, third edition, Promulgated Updates II, IIA, and III, June 1997
Chloride	Method 325.2"Methods for Chemical Analysis of Water and Wastes", EPA-600/4-79-020, March 1983 and subsequent revisions
Nitrate-Nitrite	Method 353.2, "Methods for Chemical Analysis of Water and Wastes", EPA-600/4-79-020, March 1983 and subsequent revisions
Nitrite	Method 353.2, "Methods for Chemical Analysis of Water and Wastes", EPA-600/4-79-020, March 1983 and subsequent revisions
Total Kjeldahl Nitrogen	Method 351.2, "Methods for Chemical Analysis of Water and Wastes", EPA-600/4-79-020, March 1983 and subsequent revisions
Sulfate	Method 375.4, "Methods for Chemical Analysis of Water and Wastes", EPA-600/4-79-020, March 1983 and subsequent revisions

Table 1 Samples For Data Validation Review
Hercules-Aqualon Vacuum Filter Sludge Pile & Sludge Drying Beds
Surface Water Samples Collected March 2009
TestAmerica Laboratories Sample Delivery Group HAQ032

SAMPLE I.D.	LABORATORY I.D	DATE COLLECTED	MATRIX	ANALYSES PERFORMED					
				VOC	SVOC	ACRYLAMIDE	ALCOHOLS	TMET	MISC
VFSP-SW-1	680-45579-1	3/17/2009	Surface Water	X	X	X	X	X	X
SDB-SW-1	680-45579-2	3/17/2009	Surface Water	X	X	X	X	X	X
SDB-SW-2	680-45579-3	3/17/2009	Surface Water	X	X	X	X	X	X
TB-1	680-45579-4	3/17/2009	Trip Blank	X					
SDBSW-3	680-45623-1	3/18/2009	Surface Water	X	X	X	X	X	X
BD-1	680-45623-2	3/18/2009	Surface Water	X	X	X	X	X	X
Trip Blank	680-45623-3	3/18/2009	Trip Blank	X					
Trip Blank	680-45623-4	3/18/2009	Trip Blank	X					

VOC Hercules-Aqualon Appendix IX Volatile Organic Compound List
SVOC Hercules-Aqualon Appendix IX Semivolatile Organic Compound List
ACRYLAMIDE Acrylamide
ALCOHOLS Alcohols and Glycols
TMET Total Metals
MISC Chloride, Sulfate, Nitrate, Nitrite, Total Kjeldahl Nitrogen, Total Organic Carbon

Table 2 **Blank Results for Inorganic Analyses**

BLANK	ANALYTE	CONCENTRATION /UNITS	ASSOC. SAMPLES
PB	Chromium	1 µg/L	VFSP-SW-1, SDB-SW-1, SDB-SW-2
	Nickel	0.51 µg/L	
	Vanadium	1.1 µg/L	
CCB55	Silver	0.019 µg/L	VFSP-SW-1, SDB-SW-1, SDB-SW-2
	Beryllium	0.016 µg/L	
	Cobalt	0.011 µg/L	
CCB79	Silver	0.032 µg/L	SDBSW-3, BD-1
	Beryllium	0.029 µg/L	
	Cadmium	0.034 µg/L	
	Cobalt	0.024 µg/L	
	Iron	4.7 µg/L	
	Magnesium	4.3 µg/L	
	Manganese	0.28 µg/L	
CCB3	Nitrite	10.6 µg/L	VFSP-SW-1, SDB-SW-1, SDB-SW-2
CCB3	Nitrite	10 µg/L	SDBSW-3, BD-1
PB	TKN	57 µg/L	VFSP-SW-1, SDB-SW-1, SDB-SW-2

Table 3 **Field Duplicate Sample Results for Inorganic Analyses**
Surface Water Duplicate Samples SDBSW-3 and BD-1

Analyte	Sample Result (µg/L)		Field Duplicate Result (µg/L)		RPD	ACTION
	SDBSW-3		BD-1			
Aluminum	1100		950		15	
Arsenic	0.75	J	0.6	J	22	
Barium	42		23		58	
Cadmium	0.15	B	ND		NC	
Calcium	4500		3600		22	
Chromium	2.5	J	1.9	J	27	
Cobalt	2.2		0.85		89	
Copper	6.7		4.1	J	48	
Iron	2100		1100		63	
Lead	2		0.59	J	109	
Magnesium	2100		1900		10	
Manganese	350	L	120	L	98	
Nickel	4.1		3.1		28	
Potassium	3800		4000		5	
Sodium	4000		3900		3	
Vanadium	5.3		3	J	55	
Zinc	58		34		52	
Chloride	3300		3700		11	
Nitrogen, Kjeldahl	1200	L	1100	L	9	
Nitrate as N	71		140		65	
Sulfate	14000		14000		0	
Total Organic Carbon	21000		19000		10	

Client: Groundwater & Environmental Services Inc

Job Number: 680-45579-1
Sdg Number: HAQ032

Client Sample ID: **VFSP-SW-1**

Lab Sample ID: 680-45579-1
Client Matrix: Water

Date Sampled: 03/17/2009 1300
Date Received: 03/18/2009 0858

6020 Metals (ICP/MS)-Total Recoverable

Method: 6020
Preparation: 3005A
Dilution: 1.0
Date Analyzed: 03/20/2009 1051
Date Prepared: 03/19/2009 1148

Analysis Batch: 680-133199
Prep Batch: 680-133059

Instrument ID: ICP MS - A
Lab File ID: N/A
Initial Weight/Volume: 50 mL
Final Weight/Volume: 250 mL

Analyte	Result (ug/L)	Qualifier	MDL	RL	
Aluminum	830		15	50	
Antimony	0.52	J	0.36	2.5	
Arsenic	1.2	J	0.28	2.5	
Barium	41		2.0	5.0	
Beryllium	0.10	~~J~~ B	0.065	0.50	BL
Cadmium	0.50	U	0.12	0.50	
Calcium	3300		50	250	
Chromium	4.2	(B)	0.60	5.0	BL
Cobalt	1.2		0.029	0.50	
Copper	7.7		1.2	5.0	
Iron	7000		12	100	
Lead	5.2		0.15	1.5	
Magnesium	940		14	250	
Manganese	25		0.95	5.0	
Mercury	0.50	U	0.22	0.50	
Nickel	3.8	~~B~~	0.32	1.0	
Potassium	2700		40	250	
Selenium	2.5	U	0.60	2.5	
Silver	1.0	U	0.090	1.0	
Sodium	3600		90	250	
Thallium	1.0	U	0.55	1.0	
Vanadium	5.4	(B)	0.80	5.0	BL
Zinc	120		6.5	20	

8/29/09

Client: Groundwater & Environmental Services Inc

Job Number: 680-45579-1
Sdg Number: HAQ032

Client Sample ID: **SDB-SW-1**

Lab Sample ID: 680-45579-2
Client Matrix: Water

Date Sampled: 03/17/2009 1430
Date Received: 03/18/2009 0858

6020 Metals (ICP/MS)-Total Recoverable

Method: 6020
Preparation: 3005A
Dilution: 1.0
Date Analyzed: 03/20/2009 1124
Date Prepared: 03/19/2009 1148

Analysis Batch: 680-133199
Prep Batch: 680-133059

Instrument ID: ICP MS - A
Lab File ID: N/A
Initial Weight/Volume: 50 mL
Final Weight/Volume: 250 mL

Analyte	Result (ug/L)	Qualifier	MDL	RL	
Aluminum	320		15	50	
Antimony	2.5	U	0.36	2.5	
Arsenic	0.95	J	0.28	2.5	
Barium	9.9		2.0	5.0	
Beryllium	0.50	U	0.065	0.50	
Cadmium	0.50	U	0.12	0.50	
Calcium	2900		50	250	
Chromium	1.8	B	0.60	5.0	BL
Cobalt	0.47	J	0.029	0.50	
Copper	5.0	U	1.2	5.0	
Iron	5400		12	100	
Lead	1.0	J	0.15	1.5	
Magnesium	1500		14	250	
Manganese	49		0.95	5.0	
Mercury	0.50	U	0.22	0.50	
Nickel	1.4	B	0.32	1.0	BL
Potassium	4900		40	250	
Selenium	2.5	U	0.60	2.5	
Silver	1.0	U	0.090	1.0	
Sodium	3500		90	250	
Thallium	1.0	U	0.55	1.0	
Vanadium	3.1	B	0.80	5.0	BL
Zinc	8.1	J	6.5	20	

9/2/09

Client: Groundwater & Environmental Services Inc

Job Number: 680-45579-1
Sdg Number: HAQ032

Client Sample ID: **SDB-SW-2**

Lab Sample ID: 680-45579-3
Client Matrix: Water

Date Sampled: 03/17/2009 1451
Date Received: 03/18/2009 0858

6020 Metals (ICP/MS)-Total Recoverable

Method: 6020
Preparation: 3005A
Dilution: 1.0
Date Analyzed: 03/20/2009 1131
Date Prepared: 03/19/2009 1148

Analysis Batch: 680-133199
Prep Batch: 680-133059

Instrument ID: ICP MS - A
Lab File ID: N/A
Initial Weight/Volume: 50 mL
Final Weight/Volume: 250 mL

Analyte	Result (ug/L)	Qualifier	MDL	RL	
Aluminum	540		15	50	
Antimony	2.5	U	0.36	2.5	
Arsenic	0.68	J	0.28	2.5	
Barium	7.1		2.0	5.0	
Beryllium	0.50	U	0.065	0.50	
Cadmium	0.50	U	0.12	0.50	
Calcium	3500		50	250	
Chromium	1.9	JB	0.60	5.0	BL
Cobalt	0.27	JB	0.029	0.50	BL
Copper	1.6	J	1.2	5.0	
Iron	2500		12	100	
Lead	0.49	J	0.15	1.5	
Magnesium	1600		14	250	
Manganese	67		0.95	5.0	
Mercury	0.50	U	0.22	0.50	
Nickel	1.3	B	0.32	1.0	BL
Potassium	4100		40	250	
Selenium	2.5	U	0.60	2.5	
Silver	1.0	U	0.090	1.0	
Sodium	4100		90	250	
Thallium	1.0	U	0.55	1.0	
Vanadium	2.6	JB	0.80	5.0	BL
Zinc	13	J	6.5	20	

8/29/09

Client: Groundwater & Environmental Services Inc

Job Number: 680-45579-1
Sdg Number: HAQ032

Client Sample ID: **SDBSW-3**

Lab Sample ID: 680-45623-1
Client Matrix: Water

Date Sampled: 03/18/2009 1215
Date Received: 03/19/2009 0852

6020 Metals (ICP/MS)-Total Recoverable

Method: 6020
Preparation: 3005A
Dilution: 1.0
Date Analyzed: 03/24/2009 2223
Date Prepared: 03/23/2009 1429

Analysis Batch: 680-133669
Prep Batch: 680-133353

Instrument ID: ICP MS - A
Lab File ID: N/A
Initial Weight/Volume: 50 mL
Final Weight/Volume: 250 mL

Analyte	Result (ug/L)	Qualifier	MDL	RL	
Aluminum	1100		15	50	
Antimony	2.5	U	0.36	2.5	
Arsenic	0.75	J	0.28	2.5	
Barium	42		2.0	5.0	
Beryllium	0.20	J B	0.065	0.50	BL
Cadmium	0.15	J B	0.12	0.50	BL
Calcium	4500		50	250	
Chromium	2.5	J	0.60	5.0	
Cobalt	2.2		0.029	0.50	
Copper	6.7		1.2	5.0	
Iron	2100		12	100	
Lead	2.0		0.15	1.5	
Magnesium	2100		14	250	
Manganese	350	L	0.95	5.0	MSL
Mercury	0.50	U	0.22	0.50	
Nickel	4.1		0.32	1.0	
Selenium	2.5	U	0.60	2.5	
Silver	1.0	U	0.090	1.0	
Sodium	4000		90	250	
Thallium	1.0	U	0.55	1.0	
Vanadium	5.3		0.80	5.0	
Zinc	58		6.5	20	

CL 8/24/09

Method: 6020
Preparation: 3005A
Dilution: 1.0
Date Analyzed: 03/25/2009 2112
Date Prepared: 03/23/2009 1429

Analysis Batch: 680-133684
Prep Batch: 680-133353

Instrument ID: ICP MS - A
Lab File ID: N/A
Initial Weight/Volume: 50 mL
Final Weight/Volume: 250 mL

Analyte	Result (ug/L)	Qualifier	MDL	RL
Potassium	3800		40	250

CL 8/24/09

Client: Groundwater & Environmental Services Inc

Job Number: 680-45579-1
Sdg Number: HAQ032

Client Sample ID: **BD-1**

Lab Sample ID: 680-45623-2FD
Client Matrix: Water

Date Sampled: 03/18/2009 0000
Date Received: 03/19/2009 0852

6020 Metals (ICP/MS)-Total Recoverable

Method: 6020
Preparation: 3005A
Dilution: 1.0
Date Analyzed: 03/24/2009 2257
Date Prepared: 03/23/2009 1429

Analysis Batch: 680-133669
Prep Batch: 680-133353

Instrument ID: ICP MS - A
Lab File ID: N/A
Initial Weight/Volume: 50 mL
Final Weight/Volume: 250 mL

Analyte	Result (ug/L)	Qualifier	MDL	RL	
Aluminum	950		15	50	
Antimony	2.5	U	0.36	2.5	
Arsenic	0.60	J	0.28	2.5	
Barium	23		2.0	5.0	
Beryllium	0.090	J B	0.065	0.50	BL
Cadmium	0.50	U	0.12	0.50	
Calcium	3600		50	250	
Chromium	1.9	J	0.60	5.0	
Cobalt	0.85		0.029	0.50	
Copper	4.1	J	1.2	5.0	
Iron	1100		12	100	
Lead	0.59	J	0.15	1.5	
Magnesium	1900		14	250	
Manganese	120	L	0.95	5.0	MSL
Mercury	0.50	U	0.22	0.50	
Nickel	3.1		0.32	1.0	
Selenium	2.5	U	0.60	2.5	
Silver	1.0	U	0.090	1.0	
Sodium	3900		90	250	
Thallium	1.0	U	0.55	1.0	
Vanadium	3.0	J	0.80	5.0	
Zinc	34		6.5	20	

Method: 6020
Preparation: 3005A
Dilution: 1.0
Date Analyzed: 03/25/2009 2146
Date Prepared: 03/23/2009 1429

Analysis Batch: 680-133684
Prep Batch: 680-133353

Instrument ID: ICP MS - A
Lab File ID: N/A
Initial Weight/Volume: 50 mL
Final Weight/Volume: 250 mL

Analyte	Result (ug/L)	Qualifier	MDL	RL
Potassium	4000		40	250

General Chemistry

Client Sample ID: **VFSP-SW-1**

Lab Sample ID: 680-45579-1
Client Matrix: Water

Date Sampled: 03/17/2009 1300
Date Received: 03/18/2009 0858

Analyte	Result	Qual	Units	MDL	RL	Dil	Method	
Chloride	2800		ug/L	170	1000	1.0	325.2	
	Anly Batch: 680-134033	Date Analyzed		03/31/2009 1610				
Nitrogen, Kjeldahl	870	B L	ug/L	57	200	1.0	351.2	MSL
	Anly Batch: 680-133803	Date Analyzed		03/28/2009 1312				
	Prep Batch: 680-133620	Date Prepared:		03/25/2009 1530				
Nitrate as N	380		ug/L	120	250	5.0	353.2	
	Anly Batch: 680-133358	Date Analyzed		03/18/2009 1420				
Nitrite as N	15	B	ug/L	10	50	1.0	353.2	BL
	Anly Batch: 680-133683	Date Analyzed		03/18/2009 1420				
Sulfate	17000		ug/L	2500	5000	1.0	375.4	
	Anly Batch: 680-134020	Date Analyzed		03/31/2009 1102				
Total Organic Carbon	6000		ug/L	500	1000	1.0	9060	
	Anly Batch: 680-133531	Date Analyzed		03/24/2009 1317				

OK 9/2/09

Client Sample ID: **SDB-SW-1**

Lab Sample ID: 680-45579-2
Client Matrix: Water

Date Sampled: 03/17/2009 1430
Date Received: 03/18/2009 0858

Analyte	Result	Qual	Units	MDL	RL	Dil	Method	
Chloride	6100		ug/L	170	1000	1.0	325.2	
	Anly Batch: 680-134033	Date Analyzed		03/31/2009 1610				
Nitrogen, Kjeldahl	1000	B L	ug/L	57	200	1.0	351.2	MSL
	Anly Batch: 680-133803	Date Analyzed		03/28/2009 1312				
	Prep Batch: 680-133620	Date Prepared:		03/25/2009 1530				
Nitrate as N	250	U	ug/L	120	250	5.0	353.2	
	Anly Batch: 680-133358	Date Analyzed		03/18/2009 1420				
Nitrite as N	50	U	ug/L	10	50	1.0	353.2	
	Anly Batch: 680-133683	Date Analyzed		03/18/2009 1420				
Sulfate	9300		ug/L	2500	5000	1.0	375.4	
	Anly Batch: 680-134020	Date Analyzed		03/31/2009 1102				
Total Organic Carbon	12000		ug/L	500	1000	1.0	9060	
	Anly Batch: 680-133531	Date Analyzed		03/24/2009 1334				

OK 9/2/09

General Chemistry

Client Sample ID: **SDB-SW-2**

Lab Sample ID: 680-45579-3
Client Matrix: Water

Date Sampled: 03/17/2009 1451
Date Received: 03/18/2009 0858

Analyte	Result	Qual	Units	MDL	RL	Dil	Method
Chloride	5100		ug/L	170	1000	1.0	325.2
Anly Batch: 680-134033	Date Analyzed			03/31/2009 1610			
Nitrogen, Kjeldahl	1600		ug/L	57	200	1.0	351.2
Anly Batch: 680-133803	Date Analyzed			03/28/2009 1312			
Prep Batch: 680-133620	Date Prepared:			03/25/2009 1530			
Nitrate as N	250	U	ug/L	120	250	5.0	353.2
Anly Batch: 680-133358	Date Analyzed			03/18/2009 1420			
Nitrite as N	50	U	ug/L	10	50	1.0	353.2
Anly Batch: 680-133683	Date Analyzed			03/18/2009 1420			
Sulfate	7300		ug/L	2500	5000	1.0	375.4
Anly Batch: 680-134020	Date Analyzed			03/31/2009 1102			
Total Organic Carbon	13000		ug/L	500	1000	1.0	9060
Anly Batch: 680-133531	Date Analyzed			03/24/2009 1352			

Client Sample ID: **SDBSW-3**

Lab Sample ID: 680-45623-1
Client Matrix: Water

Date Sampled: 03/18/2009 1215
Date Received: 03/19/2009 0852

Analyte	Result	Qual	Units	MDL	RL	Dil	Method
Chloride	3300		ug/L	170	1000	1.0	325.2
Anly Batch: 680-134033	Date Analyzed			03/31/2009 1610			
Nitrogen, Kjeldahl	1200		ug/L	57	200	1.0	351.2
Anly Batch: 680-136587	Date Analyzed			04/30/2009 1324			
Prep Batch: 680-136483	Date Prepared:			04/29/2009 1430			
Nitrate as N	71		ug/L	25	50	1.0	353.2
Anly Batch: 680-133903	Date Analyzed			03/19/2009 1243			
Nitrite as N	50	U	ug/L	10	50	1.0	353.2
Anly Batch: 680-133682	Date Analyzed			03/19/2009 1243			
Sulfate	14000		ug/L	2500	5000	1.0	375.4
Anly Batch: 680-134020	Date Analyzed			03/31/2009 1130			
Total Organic Carbon	21000		ug/L	500	1000	1.0	9060
Anly Batch: 680-133531	Date Analyzed			03/24/2009 1445			

Client: Groundwater & Environmental Services Inc

Job Number: 680-45579-1
Sdg Number: HAQ032

General Chemistry

Client Sample ID: **BD-1**

Lab Sample ID: 680-45623-2FD
Client Matrix: Water

Date Sampled: 03/18/2009 0000
Date Received: 03/19/2009 0852

Analyte	Result	Qual	Units	MDL	RL	Dil	Method	
Chloride	3700		ug/L	170	1000	1.0	325.2	
Anly Batch: 680-134033	Date Analyzed			03/31/2009 1614				
Nitrogen, Kjeldahl	1100	~~H~~ L	ug/L	57	200	1.0	351.2	HT
Anly Batch: 680-136587	Date Analyzed			04/30/2009 1324				
Prep Batch: 680-136483	Date Prepared:			04/29/2009 1430				
Nitrate as N	140		ug/L	25	50	1.0	353.2	
Anly Batch: 680-133903	Date Analyzed			03/19/2009 1243				
Nitrite as N	50	U	ug/L	10	50	1.0	353.2	
Anly Batch: 680-133682	Date Analyzed			03/19/2009 1243				
Sulfate	14000		ug/L	2500	5000	1.0	375.4	
Anly Batch: 680-134020	Date Analyzed			03/31/2009 1130				
Total Organic Carbon	19000		ug/L	500	1000	1.0	9060	
Anly Batch: 680-133531	Date Analyzed			03/24/2009 1536				

9/2/09